

Notice of Allowability

Application No.

10/762,405

Examiner

Gary Chin

Applicant(s)

LU ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 9/2/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


GARY CHIN
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Purcell on 9/1/05.

The application has been amended as follows:

(I) In claim 3, line 30 and claim 14, lines 3 and 6, after "reference", the words "lateral velocity" have been deleted respectively.

(II) In claim 3, line 35, before "said", the word "or" has been changed to --and--.

(III) In claim 4, lines 3-4, the phrase ", but not limit to :" has been changed to --at least one of--.

(IV) In claims 5-6 and 10-13, all on lines 1-2, after "said", the words "integrated controllers" have been changed to --reference signal generator" respectively.

(V) In claim 5, line 2, before "reference", "a" has been changed to --said--.

(VI) In claim 8, line 5, before "lateral", "a" has been changed to --said--. Further, on line 6, the word "relative" on both occurrences has been changed to --reference-- respectively.

(VII) In claim 9, line 2, the word "sensor" has been changed to --signal--. Further, on lines 3-4, the phrase "using a roll rate sensor, a pitch rate sensor, a yaw rate sensor" has been changed to -- using said roll rate signal, said pitch rate signal, said yaw rate signal--.

(VIII) In claim 12, line 4, before "vehicle", "said" has been changed to --a--.

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(IX) In claim 13, line 3, before “relative”, “said” has been changed to --a--.

(X) In claim 15, line 20, after “constraint”, the word “and” has been replaced with a comma --,. Further, on line 28, the word “rollover” has been changed to --dynamic--.

(XI) In claim 16, the phrases “, such as, but not limited, to” on lines 2-3 and “, such as, but not limited to,” on lines 10-11 have been changed to --including at least one of-- respectively. Further, on line 12, after “detection”, the comma “,” has been changed to --and--.

(XII) In claims 18 and 19, both on line 2, before “controller”, the word --integrated-- has been inserted respectively. Further, on line 3 of claim 19, the words “ said vehicle body” have been changed to --a body of said vehicle--.

(XIII) In claim 20, line 21, before “lateral”, “a” has been changed to --said--. Further, on line 36, before “yaw”, “a” has been changed to --said--. On line 37, after “rate”, the word “sensor” has been changed to --signal--. On line 38, before “relative”, the word --said-- has been inserted.

(XIV) In claim 21, line 3, before “computation”, “a” has been changed to --said--.

(XV) In claim 22, line 5, after “logic”, the semi-colon “;” has been replaced with --for--.

(XVI) In claim 24, the word “sensor” on line 2 and all three occurrences on line 4 has been changed to --signal-- respectively.

(XVII) In claim 25, lines 3-4, the phrase “ said lateral vehicle accelerations and said yaw rate signal” has been changed to --the lateral vehicle accelerations and a yaw rate signal--.

(XVIII) In claim 26, line 3, the word “said” has been changed to --a--.

(XIX) In claim 27, line 19, before “reference”, “a” has been changed to --said--. Further, on line 31, before “lateral”, “a” has been changed to --said--. On line 34, the word “sensor” has

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been changed to --signal--. On lines 35-37, the phrase “using a roll rate sensor, a pitch rate sensor, a yaw rate sensor and relative roll” has been changed to --using said roll rate signal, said pitch rate signal, said yaw rate signal and said relative roll--. On line 40, after “acceleration”, the word --signal-- has been inserted.

(XX) In claim 28, lines 1 and 8, before “controlling”, the word --said-- has been inserted respectively.

2. The following is an examiner’s statement of reasons for allowance:

The claimed vehicle control system and method for controlling a safety device in a vehicle in which the reference (lateral velocity) signal used to generate a dynamic control signal for controlling the safety device is based upon the kinematics road constraint condition, dynamic road constraint condition and singularity removal logic as required in claims 1-14 and 20-28, and the generation of the lateral velocity signal and the side slip angle signal based upon the kinematics road constraint, angular rate signals, linear acceleration signals, wheel speed signal and the steering angle signal as required in claims 15-19, in combination with other claimed subject matters have neither been taught nor made obvious by the art of record.

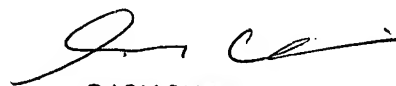
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary Chin whose telephone number is (571) 272-6959. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



GARY CHIN
PRIMARY EXAMINER